How to strip the main optical cable

Overview

How to quickly and cleanly remove the outer covering of optical fiber. Use the Wire Stripper/Splitter to strip a variety of fiber optic and coaxial cable.

Key Takeaways

Stripping optical cables involves carefully removing the outer jacket, strength members, and buffer coatings to expose the fiber without causing damage.Preparation and Safety
• Work area: Ensure a clean, well-lit workspace free of dust and debris ( ).

• Safety gear: Always wear safety glasses to protect your eyes from sharp fiber shards ( ).

• Tools: Use a fiber optic cable stripper, cleaver, hook blade knife, alcohol wipes, and inspection microscope ( ).
Step-by-Step Stripping Process
• Measure and mark the cable: Determine the length of jacket to remove based on your termination or splicing needs. Mark the jacket accordingly ( ).

• Score the outer jacket: Use a circular scoring tool or hook blade to make a shallow cut around the outer jacket, typically 7–10 inches from the cable end. Avoid cutting too deep to prevent damaging the inner fibers ( ).

• Remove the outer jacket: Bend the scored section to break the plastic and peel it away. Expose the ripcord if present, which can help remove the remaining jacket ( ).

• Strip strength members: Carefully remove aramid yarn or other strength fibers without cutting the fiber itself. These fibers provide tensile strength and must remain intact for proper connector performance ( ).

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• Remove buffer coatings: Use a fiber optic stripper to remove the protective coating from each individual fiber. Adjust the stripper blade depth according to the fiber diameter to avoid nicking the glass ( ).

• Clean the fiber: Wipe the stripped fiber with alcohol or a cleaning solution to remove debris and ensure a clean surface for termination ( ).

• Cleave the fiber: Use a fiber optic cleaver to create a smooth, perpendicular end face. Inspect the cleave with a microscope or visual fault locator to ensure it is free of defects ( ).

• Repeat for multiple fibers: If working with multi-fiber cables, repeat the stripping, cleaning, and cleaving process for each fiber individually, maintaining consistency and precision ( ).
Best Practices
• Strip layers progressively: jacket first, then strength members, then buffers ( ).

• Maintain tools: Keep cutting edges sharp to prevent fiber damage ( ).

• Handle fibers carefully: Avoid bending fibers sharply or applying excessive force.

• Dispose of fiber scraps safely to prevent injury ( ). Following these steps ensures clean, undamaged fibers ready for splicing or connectorization, which is critical for optimal signal transmission and network performance ( ).

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You have successfully completed this exercise when you have been able to strip the jacket and both buffer coating layers from the

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The cable core for high fiber count cables (greater than 144 fibers) may contain two layers of buffer tubes. Remove any additional

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I dont understand how he was able to do that with such a short stripping of the cable - thats got to be something like plastic optical

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How to Repair a Fiber Optic Cable

To fix a fiber optic cable, remove damage, prepare the ends, align and splice, then verify performance with an OTDR for minimal

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Lesson: Stripping Optical Fiber Cable Objectives: From this lesson you should learn: How to use these tools to strip cable to the bare

How to Remove Fiber Optic Cable from Modem

Patience pays off long-term. Step-By-Step Fiber Optic Cable Removal Once you identify your fiber optic connector

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